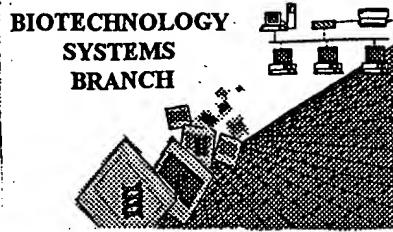


N.Yin

Re-run

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/988,384A
Source: OIPR
Date Processed by STIC: 3/19/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OIPE

RAW SEQUENCE LISTING

DATE: 03/19/2002

PATENT APPLICATION: US/09/988,384A

TIME: 13:55:49

Input Set : A:\09-988384 Sequence Listing.txt

Output Set: N:\CRF3\03192002\I988384A.raw

4 <110> APPLICANT: Sherman, D.H.
 5 Liu, H.
 6 Xue, Y.
 7 Zhao, L.
 9 <120> TITLE OF INVENTION: DNA encoding methymycin and pikromycin
 11 <130> FILE REFERENCE: 600.536US1
 13 <140> CURRENT APPLICATION NUMBER: US 09/988,384A
 14 <141> CURRENT FILING DATE: 2001-11-19
 16 <150> PRIOR APPLICATION NUMBER: PCT/US99/14398
 17 <151> PRIOR FILING DATE: 1999-06-25
 19 <150> PRIOR APPLICATION NUMBER: US 09/105,537
 20 <151> PRIOR FILING DATE: 1998-06-26
 22 <160> NUMBER OF SEQ ID NOS: 53

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

2297 <210> SEQ ID NO: 6
 2298 <211> LENGTH: 12199
 2299 <212> TYPE: PRT
 2300 <213> ORGANISM: Streptomyces venezuelae *see pg 2-7*
 2302 <400> SEQUENCE: 6
 2303 Met Ala Phe Ser Pro Gln Gly Gly Arg His Glu Leu Gly Gln Asn Phe
 2304 1 5 10 15
 2305 Leu Val Asp Arg Ser Val Ile Asp Glu Ile Asp Gly Leu Val Ala Arg
 2306 20 25 30
 2307 Thr Lys Gly Pro Ile Leu Glu Ile Gly Pro Gly Asp Gly Ala Leu Thr
 2308 35 40 45
 2309 Leu Pro Leu Ser Arg His Gly Arg Pro Ile Thr Ala Val Glu Leu Asp
 2310 50 55 60
 2311 Gly Arg Arg Ala Gln Arg Leu Gly Ala Arg Thr Pro Gly His Val Thr
 2312 65 70 75 80
 2313 Val Val His His Asp Phe Leu Gln Tyr Pro Leu Pro Arg Asn Pro His
 2314 85 90 95
 2315 Val Val Val Gly Asn Val Pro Phe His Leu Thr Thr Ala Ile Met Arg
 2316 100 105 110
 2317 Arg Leu Leu Asp Ala Gln His Trp His Thr Ala Val Leu Leu Val Gln
 2318 115 120 125
 2319 Trp Glu Val Ala Arg Arg Ala Gly Val Gly Gly Ser Thr Leu Leu
 2320 130 135 140
 2321 Thr Ala Gly Trp Ala Pro Trp Tyr Glu Phe Asp Leu His Ser Arg Val
 2322 145 150 155 160
 2323 Pro Ala Arg Ala Phe Arg Pro Met Pro Gly Val Asp Gly Gly Val Leu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/988,384A

DATE: 03/19/2002

TIME: 13:55:50

Input Set : A:\09-988384 Sequence Listing.txt
 Output Set: N:\CRF3\03192002\I988384A.raw

Trp
10065 |
S | Ala
P |
A |
C |
E |

T
please
insert
a Space
between
ending
number
and next
amino
acid

3549 Glu Val Asp Val Leu Glu Ala Asp Asp Asp Arg Glu Ala Leu
 3550 9970 9975 9980
 3551 Ala Ala Arg Leu Thr Ala Leu Thr Thr Gly Asp Gly Phe Thr Gly Val
 3552 9985 9990 9995 10000
 3553 Val Ser Leu Leu Asp Asp Leu Val Pro Gln Val Ala Trp Val Gln Ala
 3554 10005 10010 10015
 3555 Leu Gly Asp Ala Gly Ile Lys Ala Pro Leu Trp Ser Val Thr Gln Gly
 3556 10020 10025 10030
 3557 Ala Val Ser Val Gly Arg Leu Asp Thr Pro Ala Asp Pro Asp Arg Ala
 3558 10035 10040 10045
 3559 Met Leu Trp Gly Leu Gly Arg Val Val Ala Leu Glu His Pro Glu Arg
 3560 10050 10055 10060
 3561 Trp Ala Gly Leu Val Asp Leu Pro Ala Gln Pro Asp Ala Ala Leu
 E--> 3562 10065 10070 10075 10080
 3563 Ala His Leu Val Thr Ala Leu Ser Gly Ala Thr Gly Glu Asp Gln Ile
 3564 10085 10090 10095
 3565 Ala Ile Arg Thr Thr Gly Leu His Ala Arg Arg Leu Ala Arg Ala Pro
 3566 10100 10105 10110
 3567 Leu His Gly Arg Arg Pro Thr Arg Asp Trp Gln Pro His Gly Thr Val
 3568 10115 10120 10125
 3569 Leu Ile Thr Gly Gly Thr Gly Ala Leu Gly Ser His Ala Ala Arg Trp
 3570 10130 10135 10140
 3571 Met Ala His His Gly Ala Glu His Leu Leu Val Ser Arg Ser Gly
 E--> 3572 10145 10150 10155 10160
 3573 Glu Gln Ala Pro Gly Ala Thr Gln Leu Thr Ala Glu Leu Thr Ala Ser
 3574 10165 10170 10175
 3575 Gly Ala Arg Val Thr Ile Ala Ala Cys Asp Val Ala Asp Pro His Ala
 3576 10180 10185 10190
 3577 Met Arg Thr Leu Leu Asp Ala Ile Pro Ala Glu Thr Pro Leu Thr Ala
 3578 10195 10200 10205
 3579 Val Val His Thr Ala Gly Ala Pro Gly Gly Asp Pro Leu Asp Val Thr
 3580 10210 10215 10220
 3581 Gly Pro Glu Asp Ile Ala Arg Ile Leu Gly Ala Lys Thr Ser Gly Ala
 E--> 3582 10225 10230 10235 10240
 3583 Glu Val Leu Asp Asp Leu Leu Arg Gly Thr Pro Leu Asp Ala Phe Val
 3584 10245 10250 10255
 3585 Leu Tyr Ser Ser Asn Ala Gly Val Trp Gly Ser Gly Ser Gln Gly Val
 3586 10260 10265 10270
 3587 Tyr Ala Ala Ala Asn Ala His Leu Asp Ala Leu Ala Ala Arg Arg Arg
 3588 10275 10280 10285
 3589 Ala Arg Gly Glu Thr Ala Thr Ser Val Ala Trp Gly Leu Trp Ala Gly
 3590 10290 10295 10300
 3591 Asp Gly Met Gly Arg Gly Ala Asp Asp Ala Tyr Trp Gln Arg Arg Gly
 E--> 3592 10305 10310 10315 10320
 3593 Ile Arg Pro Met Ser Pro Asp Arg Ala Leu Asp Glu Leu Ala Lys Ala
 3594 10325 10330 10335
 3595 Leu Ser His Asp Glu Thr Phe Val Ala Val Ala Asp Val Asp Trp Glu
 3596 10340 10345 10350
 3597 Arg Phe Ala Pro Ala Phe Thr Val Ser Arg Pro Ser Leu Leu Asp

only the
erroneous
portion of
sequence 6
shown

when numbering
the last
amino acid
on a line,
please end
the number
directly below
the last letter
of the amino
acid

Ala |
S |
P |
A |
C |
E |
Leu |
10080

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/988,384A

DATE: 03/19/2002
TIME: 13:55:50

Input Set : A:\09-988384 Sequence Listing.txt
Output Set: N:\CRF3\03192002\I988384A.raw

3598 10355 10360 10365
3599 Gly Val Pro Glu Ala Arg Gln Ala Leu Ala Ala Pro Val Gly Ala Pro
3600 10370 10375 10380
3601 Ala Pro Gly Asp Ala Ala Val Ala Pro Thr Gly Gln Ser Ser Ala Leu
E--> 3602 10385 10390 10395 10400 same error
3603 Ala Ala Ile Thr Ala Leu Pro Glu Pro Glu Arg Arg Pro Ala Leu Leu
3604 10405 10410 10415
3605 Thr Leu Val Arg Thr His Ala Ala Val Leu Gly His Ser Ser Pro
3606 10420 10425 10430
3607 Asp Arg Val Ala Pro Gly Arg Ala Phe Thr Glu Leu Gly Phe Asp Ser
3608 10435 10440 10445
3609 Leu Thr Ala Val Gln Leu Arg Asn Gln Leu Ser Thr Val Val Gly Asn
3610 10450 10455 10460
3611 Arg Leu Pro Ala Thr Thr Val Phe Asp His Pro Thr Pro Ala Ala Leu
E--> 3612 10465 10470 10475 10480
3613 Ala Ala His Leu His Glu Ala Tyr Leu Ala Pro Ala Glu Pro Ala Pro
3614 10485 10490 10495
3615 Thr Asp Trp Glu Gly Arg Val Arg Arg Ala Leu Ala Glu Leu Pro Leu
3616 10500 10505 10510
3617 Asp Arg Leu Arg Asp Ala Gly Val Leu Asp Thr Val Leu Arg Leu Thr
3618 10515 10520 10525
3619 Gly Ile Glu Pro Glu Pro Gly Ser Gly Ser Asp Gly Gly Ala Ala
3620 10530 10535 10540
3621 Asp Pro Gly Ala Glu Pro Glu Ala Ser Ile Asp Asp Leu Asp Ala Glu
E--> 3622 10545 10550 10555 10560
3623 Ala Leu Ile Arg Met Ala Leu Gly Pro Arg Asn Thr Met Thr Ser Ser
3624 10565 10570 10575
3625 Asn Glu Gln Leu Val Asp Ala Leu Arg Ala Ser Leu Lys Glu Asn Glu
3626 10580 10585 10590
3627 Glu Leu Arg Lys Glu Ser Arg Arg Ala Asp Arg Arg Gln Glu Pro
3628 10595 10600 10605
3629 Met Ala Ile Val Gly Met Ser Cys Arg Phe Ala Gly Gly Ile Arg Ser
3630 10610 10615 10620
3631 Pro Glu Asp Leu Trp Asp Ala Val Ala Gly Lys Asp Leu Val Ser
E--> 3632 10625 10630 10635 10640
3633 Glu Val Pro Glu Glu Arg Gly Trp Asp Ile Asp Ser Leu Tyr Asp Pro
3634 10645 10650 10655
3635 Val Pro Gly Arg Lys Gly Thr Thr Tyr Val Arg Asn Ala Ala Phe Leu
3636 10660 10665 10670
3637 Asp Asp Ala Ala Gly Phe Asp Ala Ala Phe Phe Gly Ile Ser Pro Arg
3638 10675 10680 10685
3639 Glu Ala Leu Ala Met Asp Pro Gln Gln Arg Gln Leu Leu Glu Ala Ser
3640 10690 10695 10700
3641 Trp Glu Val Phe Glu Arg Ala Gly Ile Asp Pro Ala Ser Val Arg Gly
E--> 3642 10705 10710 10715 10720
3643 Thr Asp Val Gly Val Tyr Val Gly Cys Gly Tyr Gln Asp Tyr Ala Pro
3644 10725 10730 10735
3645 Asp Ile Arg Val Ala Pro Glu Gly Thr Gly Gly Tyr Val Val Thr Gly
3646 10740 10745 10750

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/988,384A

DATE: 03/19/2002
TIME: 13:55:50

Input Set : A:\09-988384 Sequence Listing.txt
Output Set: N:\CRF3\03192002\I988384A.raw

3647 Asn Ser Ser Ala Val Ala Ser Gly Arg Ile Ala Tyr Ser Leu Gly Leu
 3648 10755 10760 10765
 3649 Glu Gly Pro Ala Val Thr Val Asp Thr Ala Cys Ser Ser Ser Leu Val
 3650 10770 10775 10780
 3651 Ala Leu His Leu Ala Leu Lys Gly Leu Arg Asn Gly Asp Cys Ser Thr
 E--> 3652 10785 10790 10795 10800
 3653 Ala Leu Val Gly Gly Val Ala Val Leu Ala Thr Pro Gly Ala Phe Ile
 3654 10805 10810 10815
 3655 Glu Phe Ser Ser Gln Gln Ala Met Ala Ala Asp Gly Arg Thr Lys Gly
 3656 10820 10825 10830
 3657 Phe Ala Ser Ala Ala Asp Gly Leu Ala Trp Gly Glu Gly Val Ala Val
 3658 10835 10840 10845
 3659 Leu Leu Leu Glu Arg Leu Ser Asp Ala Arg Arg Lys Gly His Arg Val
 3660 10850 10855 10860
 3661 Leu Ala Val Val Arg Gly Ser Ala Ile Asn Gln Asp Gly Ala Ser Asn
 E--> 3662 10865 10870 10875 10880
 3663 Gly Leu Thr Ala Pro His Gly Pro Ser Gln Gln His Leu Ile Arg Gln
 3664 10885 10890 10895
 3665 Ala Leu Ala Asp Ala Arg Leu Thr Ser Ser Asp Val Asp Val Val Glu
 3666 10900 10905 10910
 3667 Gly His Gly Thr Gly Thr Arg Leu Gly Asp Pro Ile Glu Ala Gln Ala
 3668 10915 10920 10925
 3669 Leu Leu Ala Thr Tyr Gly Gln Gly Arg Ala Pro Gly Gln Pro Leu Arg
 3670 10930 10935 10940
 3671 Leu Gly Thr Leu Lys Ser Asn Ile Gly His Thr Gln Ala Ala Ser Gly
 E--> 3672 10945 10950 10955 10960
 3673 Val Ala Gly Val Ile Lys Met Val Gln Ala Leu Arg His Gly Val Leu
 3674 10965 10970 10975
 3675 Pro Lys Thr Leu His Val Asp Glu Pro Thr Asp Gln Val Asp Trp Ser
 3676 10980 10985 10990
 3677 Ala Gly Ser Val Glu Leu Leu Thr Glu Ala Val Asp Trp Pro Glu Arg
 3678 10995 11000 11005
 3679 Pro Gly Arg Leu Arg Arg Ala Gly Val Ser Ala Phe Gly Val Gly Gly
 3680 11010 11015 11020
 3681 Thr Asn Ala His Val Val Leu Glu Ala Pro Ala Val Glu Ser
 E--> 3682 11025 11030 11035 11040
 3683 Pro Ala Val Glu Pro Pro Ala Gly Gly Val Val Pro Trp Pro Val
 3684 11045 11050 11055
 3685 Ser Ala Lys Thr Ser Ala Ala Leu Asp Ala Gln Ile Gly Gln Leu Ala
 3686 11060 11065 11070
 3687 Ala Tyr Ala Glu Asp Arg Thr Asp Val Asp Pro Ala Val Ala Ala Arg
 3688 11075 11080 11085
 3689 Ala Leu Val Asp Ser Arg Thr Ala Met Glu His Arg Ala Val Ala Val
 3690 11090 11095 11100
 3691 Gly Asp Ser Arg Glu Ala Leu Arg Asp Ala Leu Arg Met Pro Glu Gly
 E--> 3692 11105 11110 11115 11120
 3693 Leu Val Arg Gly Thr Val Thr Asp Pro Gly Arg Val Ala Phe Val Phe
 3694 11125 11130 11135
 3695 Pro Gly Gln Gly Thr Gln Trp Ala Gly Met Gly Ala Glu Leu Leu Asp

Same
error

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/988,384A

DATE: 03/19/2002
TIME: 13:55:50

Input Set : A:\09-988384 Sequence Listing.txt
Output Set: N:\CRF3\03192002\I988384A.raw

3696 11140 11145 11150
3697 Ser Ser Pro Glu Phe Ala Ala Ala Met Ala Glu Cys Glu Thr Ala Leu
3698 11155 11160 11165
3699 Ser Pro Tyr Val Asp Trp Ser Leu Glu Ala Val Val Arg Gln Ala Pro
3700 11170 11175 11180
3701 Ser Ala Pro Thr Leu Asp Arg Val Asp Val Val Gln Pro Val Thr Phe
E--> 3702 11185 11190 11195 11200
3703 Ala Val Met Val Ser Leu Ala Lys Val Trp Gln His His Gly Ile Thr
3704 11205 11210 11215
3705 Pro Glu Ala Val Ile Gly His Ser Gln Gly Glu Ile Ala Ala Ala Tyr
3706 11220 11225 11230
3707 Val Ala Gly Ala Leu Thr Leu Asp Asp Ala Ala Arg Val Val Thr Leu
3708 11235 11240 11245
3709 Arg Ser Lys Ser Ile Ala Ala His Leu Ala Gly Lys Gly Gly Met Ile
3710 11250 11255 11260
3711 Ser Leu Ala Leu Ser Glu Glu Ala Thr Arg Gln Arg Ile Glu Asn Leu
E--> 3712 11265 11270 11275 11280
3713 His Gly Leu Ser Ile Ala Ala Val Asn Gly Pro Thr Ala Thr Val Val
3714 11285 11290 11295
3715 Ser Gly Asp Pro Thr Gln Ile Gln Glu Leu Ala Gln Ala Cys Glu Ala
3716 11300 11305 11310
3717 Asp Gly Ile Arg Ala Arg Ile Ile Pro Val Asp Tyr Ala Ser His Ser
3718 11315 11320 11325
3719 Ala His Val Glu Thr Ile Glu Asn Glu Leu Ala Asp Val Leu Ala Gly
3720 11330 11335 11340
3721 Leu Ser Pro Gln Thr Pro Gln Val Pro Phe Phe Ser Thr Leu Glu Gly
E--> 3722 11345 11350 11355 11360
3723 Thr Trp Ile Thr Glu Pro Ala Leu Asp Gly Gly Tyr Trp Tyr Arg Asn
3724 11365 11370 11375
3725 Leu Arg His Arg Val Gly Phe Ala Pro Ala Val Glu Thr Leu Ala Thr
3726 11380 11385 11390
3727 Asp Glu Gly Phe Thr His Phe Ile Glu Val Ser Ala His Pro Val Leu
3728 11395 11400 11405
3729 Thr Met Thr Leu Pro Asp Lys Val Thr Gly Leu Ala Thr Leu Arg Arg
3730 11410 11415 11420
3731 Glu Asp Gly Gly Gln His Arg Leu Thr Thr Ser Leu Ala Glu Ala Trp
E--> 3732 11425 11430 11435 11440
3733 Ala Asn Gly Leu Ala Leu Asp Trp Ala Ser Leu Leu Pro Ala Thr Gly
3734 11445 11450 11455
3735 Ala Leu Ser Pro Ala Val Pro Asp Leu Pro Thr Tyr Ala Phe Gln His
3736 11460 11465 11470
3737 Arg Ser Tyr Trp Ile Ser Pro Ala Gly Pro Gly Glu Ala Pro Ala His
3738 11475 11480 11485
3739 Thr Ala Ser Gly Arg Glu Ala Val Ala Glu Thr Gly Leu Ala Trp Gly
3740 11490 11495 11500
3741 Pro Gly Ala Glu Asp Leu Asp Glu Glu Gly Arg Arg Ser Ala Val Leu
E--> 3742 11505 11510 11515 11520
3743 Ala Met Val Met Arg Gln Ala Ala Ser Val Leu Arg Cys Asp Ser PRO
3744 11525 11530 11535

Dane

RAW SEQUENCE LISTING DATE: 03/19/2002
 PATENT APPLICATION: US/09/988,384A TIME: 13:55:50

Input Set : A:\09-988384 Sequence Listing.txt
 Output Set: N:\CRF3\03192002\I988384A.raw

3745 Glu Glu Val Pro Val Asp Arg Pro Leu Arg Glu Ile Gly Phe Asp Ser
 3746 11540 11545 11550
 3747 Leu Thr Ala Val Asp Phe Arg Asn Arg Val Asn Arg Leu Thr Gly Leu
 3748 11555 11560 11565
 3749 Gln Leu Pro Pro Thr Val Val Phe Gln His Pro Thr Pro Val Ala Leu
 3750 11570 11575 11580
 3751 Ala Glu Arg Ile Ser Asp Glu Leu Ala Glu Arg Asn Trp Ala Val Ala
 E--> 3752 11585 11590 11595 11600
 3753 Glu Pro Ser Asp His Glu Gln Ala Glu Glu Lys Ala Ala Ala Pro
 3754 11605 11610 11615
 3755 Ala Gly Ala Arg Ser Gly Ala Asp Thr Gly Ala Gly Ala Gly Met Phe
 3756 11620 11625 11630
 3757 Arg Ala Leu Phe Arg Gln Ala Val Glu Asp Asp Arg Tyr Gly Glu Phe
 3758 11635 11640 11645
 3759 Leu Asp Val Leu Ala Glu Ala Ser Ala Phe Arg Pro Gln Phe Ala Ser
 3760 11650 11655 11660
 3761 Pro Glu Ala Cys Ser Glu Arg Leu Asp Pro Val Leu Leu Ala Gly Gly
 E--> 3762 11665 11670 11675 11680
 3763 Pro Thr Asp Arg Ala Glu Gly Arg Ala Val Leu Val Gly Cys Thr Gly
 3764 11685 11690 11695
 3765 Thr Ala Ala Asn Gly Gly Pro His Glu Phe Leu Arg Leu Ser Thr Ser
 3766 11700 11705 11710
 3767 Phe Gln Glu Glu Arg Asp Phe Leu Ala Val Pro Leu Pro Gly Tyr Gly
 3768 11715 11720 11725
 3769 Thr Gly Thr Gly Thr Gly Thr Ala Leu Leu Pro Ala Asp Leu Asp Thr
 3770 11730 11735 11740
 3771 Ala Leu Asp Ala Gln Ala Arg Ala Ile Leu Arg Ala Ala Gly Asp Ala
 E--> 3772 11745 11750 11755 11760
 3773 Pro Val Val Leu Leu Gly His Ser Gly Gly Ala Leu Leu Ala His Glu
 3774 11765 11770 11775
 3775 Leu Ala Phe Arg Leu Glu Arg Ala His Gly Ala Pro Pro Ala Gly Ile
 3776 11780 11785 11790
 3777 Val Leu Val Asp Pro Tyr Pro Pro Gly His Gln Glu Pro Ile Glu Val
 3778 11795 11800 11805
 3779 Trp Ser Arg Gln Leu Gly Glu Gly Leu Phe Ala Gly Glu Leu Glu Pro
 3780 11810 11815 11820
 3781 Met Ser Asp Ala Arg Leu Leu Ala Met Gly Arg Tyr Ala Arg Phe Leu
 E--> 3782 11825 11830 11835 11840
 3783 Ala Gly Pro Arg Pro Gly Arg Ser Ser Ala Pro Val Leu Leu Val Arg
 3784 11845 11850 11855
 3785 Ala Ser Glu Pro Leu Gly Asp Trp Gln Glu Glu Arg Gly Asp Trp Arg
 3786 11860 11865 11870
 3787 Ala His Trp Asp Leu Pro His Thr Val Ala Asp Val Pro Gly Asp His
 3788 11875 11880 11885
 3789 Phe Thr Met Met Arg Asp His Ala Pro Ala Val Ala Glu Ala Val Leu
 3790 11890 11895 11900
 3791 Ser Trp Leu Asp Ala Ile Glu Gly Ile Glu Gly Ala Gly Lys Met Thr
 E--> 3792 11905 11910 11915 11920
 3793 Asp Arg Pro Leu Asn Val Asp Ser Gly Leu Trp Ile Arg Arg Phe His

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/988,384A

DATE: 03/19/2002

TIME: 13:55:50

Input Set : A:\09-988384 Sequence Listing.txt

Output Set: N:\CRF3\03192002\I988384A.raw

3794	11925	11930	11935
3795	Pro Ala Pro Asn Ser Ala Val Arg Leu Val Cys Leu Pro His Ala Gly		
3796	11940	11945	11950
3797	Gly Ser Ala Ser Tyr Phe Phe Arg Phe Ser Glu Glu Leu His Pro Ser		
3798	11955	11960	11965
3799	Val Glu Ala Leu Ser Val Gln Tyr Pro Gly Arg Gln Asp Arg Arg Ala		
3800	11970	11975	11980
3801	Glu Pro Cys Leu Glu Ser Val Glu Glu Leu Ala Glu His Val Val Ala		
E--> 3802	11985	11990	11995
			12000
3803	Ala Thr Glu Pro Trp Trp Gln Glu Gly Arg Leu Ala Phe Phe Gly His		
3804	12005	12010	12015
3805	Ser Leu Gly Ala Ser Val Ala Phe Glu Thr Ala Arg Ile Leu Glu Gln		
3806	12020	12025	12030
3807	Arg His Gly Val Arg Pro Glu Gly Leu Tyr Val Ser Gly Arg Arg Ala		
3808	12035	12040	12045
3809	Pro Ser Leu Ala Pro Asp Arg Leu Val His Gln Leu Asp Asp Arg Ala		
3810	12050	12055	12060
3811	Phe Leu Ala Glu Ile Arg Arg Leu Ser Gly Thr Asp Glu Arg Phe Leu		
E--> 3812	12065	12070	12075
			12080
3813	Gln Asp Asp Glu Leu Leu Arg Leu Val Leu Pro Ala Leu Arg Ser Asp		
3814	12085	12090	12095
3815	Tyr Lys Ala Ala Glu Thr Tyr Leu His Arg Pro Ser Ala Lys Leu Thr		
3816	12100	12105	12110
3817	Cys Pro Val Met Ala Leu Ala Gly Asp Arg Asp Pro Lys Ala Pro Leu		
3818	12115	12120	12125
3819	Asn Glu Val Ala Glu Trp Arg Arg His Thr Ser Gly Pro Phe Cys Leu		
3820	12130	12135	12140
3821	Arg Ala Tyr Ser Gly Gly His Phe Tyr Leu Asn Asp Gln Trp His Glu		
E--> 3822	12145	12150	12155
			12160
3823	Ile Cys Asn Asp Ile Ser Asp His Leu Leu Val Thr Arg Gly Ala Pro		
3824	12165	12170	12175
3825	Asp Ala Arg Val Val Gln Pro Pro Thr Ser Leu Ile Glu Gly Ala Ala		
3826	12180	12185	12190
3827	Lys Arg Trp Gln Asn Pro Arg		
3828	12195		

VERIFICATION SUMMARY

DATE: 03/19/2002

PATENT APPLICATION: US/09/988,384A

TIME: 13:55:52

Input Set : A:\09-988384 Sequence Listing.txt

Output Set: N:\CRF3\03192002\I988384A.raw

L:3562 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6

M:332 Repeated in SeqNo=6